

Checklist For Pool Submission

This checklist is provided to facilitate Department plan review of pool facilities. Please provide the information requested, and complete the appropriate sections for the pool facility design.

Plans (2 stamped and signed sets) and specifications are to be submitted by the design engineer or architect, with their cover letter. Plans are to be drawn to scale in sufficient detail to illustrate construction. Plans shall include the following information

I. POOL DESIGN PLANS

1. A vicinity sketch noting pool in relation to surrounding area and facilities.
2. Both plan and cross sectional views of the pool. Cross sectional views should provide information on the radius of curvature of the pool at shallow, breakpoint, and deep ends of the pool.
3. Detailed view of the equipment room, and equipment within it, noting sufficient space is provided to access equipment for proper operation and maintenance.
4. Dimensional drawings of pool bottom and sidewalls.
5. Specifications on required equipment components.
6. Piping schematic showing piping, pipe size, inlets, main drains, overflow channel or skimmers, vacuum fittings, and all other appurtenances connected to the pool piping system.
7. Details on barrier construction.
8. Details on decking dimensions, noting slope direction and location of drains.
9. A functional program describing the staffing levels and uses of the pool.

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II. GENERAL POOL INFORMATION

- | | | | |
|---------------------------|-------|--------|-------|
| 1. Facility Name: | _____ | CRS #: | _____ |
| 2. Location: | _____ | City: | _____ |
| 3. Owner's Name: | _____ | Phone: | _____ |
| 4. Owner's Address: | _____ | City: | _____ |
| 5. Pool Contractor's Name | _____ | Phone: | _____ |
| 6. Designer's Name: | _____ | Phone: | _____ |

New Pool ☐ Modification ☐ Addition ☐ Outdoor ☐ Indoor ☐

III. SPECIFIC POOL DESIGN CHARACTERISTICS

1. Pool Shape: Rectangular ☐ Oval ☐ Kidney ☐ Other ☐
2. Pool Dimensions:

Length _____	Width _____	Pool Depth Range:
		Shallow: _____
		Deep: _____
3. Total Surface

Area of Pool: _____	Area < 5 ft. deep: _____ ft2	Area > 5 ft deep: _____ ft2
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4. Pool capacity _____ gallons.
5. Pool location is > _____ ft. from any pump house, trees, or other structures.

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Pool Surface Construction Material

1. Painted

Concrete: ☐ Plaster ☐ Fiberglass ☐ Tile ☐ Painted ☐ Metal ☐ Other ☐

(Please specify): _____

2. Pool color is _____

3. Pool decking construction material: _____

Type on non-slip finish provided: _____

4. Is slope of deck drainage noted on plans? _____

Yes ☐ No ☐

Note rate of slope _____ / ft.

(Min 1/4"/ft, Max 1/2"/ft)

5. On pools = or > 1,500 square feet (SF), how many SF or deck are provided? _____ SF.

Barrier (fencing) Protection

1. Note minimum barrier height: _____

2. Note type of construction of barrier with information on maximum opening widths to prevent means for access. If greater than 45 inches between tops of horizontal members of barrier, can go maximum width of openings so as not to allow a four-inch sphere to pass. If tops of horizontal members are less than 45 inches apart maximum opening width is 1 & 3/4 inches.

3. Height to access latch is _____ inches

4. Is gate or door designed to be self-closing or self-latching? Yes ☐ No ☐

5. Are gates or doors lockable for periods of non-use? Yes ☐ No ☐

Pool Floor Slopes

1. What are the pool floor slopes from the shallow depth to 5 1/2 ft? _____

2. At transition points changing from shallow to deep depths where uniform slopes are not maintained, provide information on the slope change in this transition zone.

3. Do drawings provide information on pool wall to floor interfaces? Yes ☐ No ☐

4. Are the radius of curvatures noted on the shallow, breakpoint, and deep ends of the pool? Yes ☐ No ☐

Diving and Slides

1. Does this pool provide boards, platforms, or have deep areas intended for diving? Yes ☐ No ☐

2. Are specifications provided noting the diving area in conformance with the requirements for diving areas? Yes ☐ No ☐

3. What is being provided around the pool perimeter for handholds? _____

4. Does the pool have diving boards ☐, platforms ☐, starting blocks ☐, or water slides ☐?

5. Are the locations specified on the plans? Yes ☐ No ☐

6. Is the design specification stipulated to ensure such are put in according to manufacturer's requirements? Yes ☐ No ☐

7. If slide is used, show evidence that manufacturer approves for use on commercial facilities,

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conforms to CPSC standards, and/or complies with WAC 248-97.



Ladders and Steps

1. Are locations of ladders or steps noted on the drawings? Yes ☐ No ☐
2. Where stairs are provided note: Height of steps _____”; width of steps _____”.
3. Is the location of handrail specified on drawings? Yes ☐ No ☐
4. Is a contrasting color provided on stair tread edge and specified in the plans? Yes ☐ No ☐

Recirculation System

1. Minimum flow needed to maintain 6-hour turnover is: _____ gpm.
2. Provide appropriate calculations and assumptions to determine both pump rates:
3. Is line size of recirculation system provided on the drawings, with location of all valves to provide for proper maintenance and use of equipment? Yes ☐ No ☐
4. Are inlets and outlets of pool located on the plans? Yes ☐ No ☐
5. Number of inlets: _____
6. Flow capacity designed for each inlet is: _____ gpm.
7. Number of outlets: _____
8. Is a minimum of two main drains indicated on the plans with minimum spacing of 6 feet? Yes ☐ No ☐
9. Specify number of square inches of opening on each main drain: _____ in².
10. Specify maximum velocity through main drains assuming 100% of maximum pump flow is going through the drains. _____ fps (Maximum of 1/2 inch)
11. Determine maximum velocity through main drains assuming 100% of maximum pump flow is going through the drains. _____ fps (Maximum of 1.5 fps)
12. Maximum pipe flow through suction or valved discharge lines is _____ fps.
13. Maximum pipe flow through discharge lines, downstream from any valved areas is _____ fps.
14. Name of public water supply serving this pool facility? _____
15. Do drawings note the location where make-up water is introduced into the swimming pool? Yes ☐ No ☐
16. How is it protected from backflow? _____
17. Are pool depth markings provided at the deck and on the sides of the pool? Yes ☐ No ☐
18. Are safety (float) lines or marking lines (stripe on pool sides & bottom) provided and shown on the plans at transition point from shallow to deep areas of pools not having uniform slope? Yes ☐ No ☐

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TREATMENT SYSTEMS:

Pump and Strainer

1. Is a pump strainer provided? Yes ☐ No ☐
2. Is any valving needed and shown to isolate strainer for routine maintenance? Yes ☐ No ☐
3. Does pump have self-priming capability if above pool water level? Yes ☐ No ☐

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Filter

1. Type: DE ☐ Sand ☐ Cartridge ☐ Other ☐ (Specify) _____
2. Specify type of filter _____ NSF approved? Yes ☐ No ☐
3. Number of square feet per filter is _____ SF Number of filters used: _____.
4. Maximum filter application rate with pump clean is _____ g/SF Minimum application rate with filter dirty is _____ g/SF
5. Are two gauges provided to measure differential pressure across the filter? Yes ☐ No ☐
6. Are location noted in the plans? Yes ☐ No ☐
7. Note location on plans and range of flowmeter in specifications: _____
8. Are means provided for air relief on filters? Yes ☐ No ☐
9. If using a separation tank with a DE filter, are instructions provided to warn operator to release air prior to opening? Yes ☐ No ☐

Disinfection

1. Type: Chlorine ☐ Bromine ☐ Other ☐ (Specify) _____
2. Note type of material being fed: Gas ☐ Liquid ☐ Solid ☐
3. Note type of feeding equipment to be installed. _____
4. If using liquid or solid feed material, is it NSF approved? Yes ☐ No ☐
5. If using gas chlorine, note location of separate sealed room, with door opening to out-of-doors on plans: _____
 - a. Note prevailing wind direction in relation to the pool facility (including air-take structures for buildings) and surrounding area.
 - b. Provide sign on door.
 - c. Mechanical exhaust at one air change per minute, remote or door activated switch to turn on fan, means to exhaust from floor of room, means for make-up air to room across breathing zone of operator, screened chlorinator vent.
 - d. Note type of breathing protection (self-contained breathing apparatus).
 - e. Vacuum injection chlorine systems, with vacuum-actuated cylinder regulators, integral backflow and anti-siphon protection at the injector.
 - f. Taring scales, means for automatic shutoff when pool flow is interrupted, means to store cylinders securely, valve-stem cylinder wrench on cylinders, note size of cylinders to be used.

Chemical Feeders

1. Are feeders provided for controlling pH? Yes ☐ No ☐
(Required on pools 50,000 gallons or more, or if feeding caustic soda or CO₂).
2. Are specifications on the feeding equipment attached? Yes ☐ No ☐

Heaters

1. If using heater-requiring pilot light, is pilot light readily accessible? Yes ☐ No ☐
2. Specify equipment to be installed in accordance with NEC and UMC? Yes ☐ No ☐

Ventilation

1. On indoor pools, specify facility will be installed in conformance with ASHRAE standards for pool facilities.
2. See the facility specific WAC for additional or different requirements.

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